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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,479	08/15/2003	Chuan Shyu	PUSA030760	6006
23595 7590 03/23/2007 NIKOLAI & MERSEREAU, P.A. 900 SECOND AVENUE SOUTH SUITE 820 MINNEAPOLIS, MN 55402			EXAMINER ESTRADA, ANGEL R	
			ART UNIT 2831	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/23/2007	PAPER	

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

## Office Action Summary

Application No.

10/643,479

Applicant(s)

SHYU, CHUAN

Examiner

Angel R. Estrada

Art Unit

2831

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 15 August 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892) \*
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Leal (US 4,514,723).

Regarding claim 1, Leal discloses a fuse box (see figure 5), comprising: a main body (see figure 5); a plurality of fuses (61,62) mounted on the main body (see figure 5); and a plurality of light emitting diodes (61a, 62a) each mounted on the main body and each electrically connected with a respective one of the fuses (column 3 lines 44-48).

Regarding claim 2, Leal discloses the fuse box (see figure 5), wherein each of the light emitting diodes (61a, 62a) has a relatively high resistance.

Regarding claim 3, Leal discloses the fuse box (see figure 5), wherein each of the light emitting diodes (61a, 62a) is electrically connected with a respective one of the fuses (61, 62) in a parallel manner (column 3 lines 44-48).

Regarding claim 4, Leal discloses the fuse box (see figure 5), wherein the main body (see figure 5) is provided with a plurality of receiving seats (see figure 5), and each of the fuses (61,62) is received in a respective one of the receiving seats (see figure 5).

Regarding claim 5, Leal discloses the fuse box (see figure 5), wherein each of the fuses (61,62) has two conducting blades (12,13), and each of the light emitting diodes (see figure 5) is electrically connected with the two conducting blades of a respective one of the fuses (column 3 lines 44-48).

Regarding claim 6, Leal discloses the fuse box (see figure 5), wherein each of the light emitting diodes (61a, 62a) has a resistance much greater than that each of the fuse.

Regarding claim 7, Leal discloses the fuse box (see figure 5), wherein the electric current from a power supply passes through each of the fuses (61, 62) at the normal state without passing through the respective light emitting diode (61a, 62a), and after one of the fuses (61a, 62a) is fused to form a disconnection state, the electric current from the power supply is forced to pass through the respective light emitting diode (61a, 62a), so that the respective light emitting diode will light to produce an indication effect (column 1 line 12-18).

Regarding claim 8, Leal disclose the fuse box (see figure 5), further comprising a top cover (see figure 5a) mounted on a top of the main body and formed with an elongated window aligning with the light emitting diodes (see figure 5a).

Regarding claim 13, Leal discloses the fuse box (see figure 5), wherein each of the light emitting diodes (61a, 62a) is connected with a resistor having a relatively high resistance.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leal (US 4,514,723) in view of Liner (US 5,708,554)

Regarding claim 9, Leal discloses the claimed invention except for the fuse box further comprising an indication lamp mounted on the main body and electrically connected with each of the fuses in a serial manner, so that the indication lamp can light when either one of the fuses is worn out. Liner teaches a box (30) having an indication lamp (28) mounted on the main body and electrically connected with outlet (28) in a serial manner (see figure 2), so that the indication lamp (28) can light when either one of the outlets worn out (see figure 1). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide to Leal with an indicator lamp mounted on the main body and electrically connected with each of the fuses in a serial manner, so that the indication lamp can light when either one of the fuses is worn out as taught by Liner to provide means that will indicate the user that one of the fuses are worn out.

Regarding claim 10, Leal discloses the fuse box (see figure 5), wherein the indication lamp (28 of Liner) is a light emitting diode (see figure 1).

Regarding claim 11, the modified Leal discloses the claimed invention except for the indication lamp (28 of Liner) has a color different from that of each of the light emitting diodes (61a, 62a). It would have been an obvious matter of design choice to make the indicator lamp with a color different from that of each of the light emitting diodes, since applicant has not disclosed that solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with the color of Leal.

Regarding claim 12, the modified Leal discloses the fuse box (see figure 5), further comprising a top cover (12) mounted on a top of the main body and formed with an indication window aligning with the indication lamp (see figure 1).

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Becker et al (US 7,148,698), Munn (US 5,413,501), Hatton (US 5,739,737) and Ewing et al (US 7,116,550) disclose a fuse box with indicator means.

4. Any inquiry concerning this communication should be directed to Angel R. Estrada at telephone number (571) 272-1973. The Examiner can normally be reached on Monday-Friday (8:30 -5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (571) 272-2800 Ext: 31. The fax phone

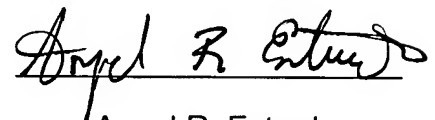
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number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 9, 2006



Angel R. Estrada  
Primary Examiner  
Art Unit: 2831